Features

- ☐ 10A 277VAC high rating miniature PCB Relay.
- ☐ Special design for White Good and Heating Element applications.
- ☐ High insulation 8mm, 4KV to meet VDE 0700 standard.
- ☐ High CTI greater than 250 and New Glow Wire approved. (E version)
- ☐ Cadmium free contacts.

Type List

◆Standard Type

Terminal style	Contact form	UL Insulation system approval	Designation (provided with)		
			Flux tight	Sealed type	Sealed type washable
PCB terminal	1A (SPNO)	F	101-1AH-F-C	101-1AH-F-V	101-1AH-F-S
		F	101-1AHA-F-C	101-1AHA-F-V	101-1AHA-F-S
	1B (SPNC)	F	101-1BH-F-C	101-1BH-F-V	101-1BH-F-S
		F	101-1BHA-F-C	101-1BHA-F-V	101-1BHA-F-S
	1C (SPDT)	F	101-1CH-F-C	101-1CH-F-V	101-1CH-F-S
		F	101-1CHA-F-C	101-1CHA-F-V	101-1CHA-F-S

◆High Sensitivity Type

PCB terminal	1A (SPNO)	F	101N-1AH-F-C	101N-1AH-F-V	101N-1AH-F-S
		F	101N-1AHA-F-C	101N-1AHA-F-V	101N-1AHA-F-S
	1B (SPNC)	F	101N-1BH-F-C	101N-1BH-F-V	101N-1BH-F-S
		F	101N-1BHA-F-C	101N-1BHA-F-V	101N-1BHA-F-S
	1C (SPDT)	F	101N-1CH-F-C	101N-1CH-F-V	101N-1CH-F-S
		F	101N-1CHA-F-C	101N-1CHA-F-V	101N-1CHA-F-S

Ordering Information

101 N - 1A C - F - C - E
1 2 3 4 5 6 7

1. 101 -- Basic series designation

2. Blank -- Standard type
   N -- High sensitivity type

3. 1A -- Single pole normally open
   1B -- Single pole normally closed
   1C -- Single pole double throw

4. C -- Contact material AgNi
   CA -- Contact material AgNi+Au
   H -- Contact material AgSnO
   HA -- Contact material AgSnO+Au

5. Blank -- Standard type
   F -- Class F

6. C -- Flux tight
   V -- Sealed type
   S -- Sealed type washable

7. Blank -- Standard type
   E -- CTI 250V

Contact Rating

Rated load (resistive)	NO：8A 240VAC　NC：5A 240VAC　NO/NC：8A/3A 240VAC
Max. switching current	8A
Max. switching voltage	277VAC
Max. switching capacity	1920VA

Coil Rating (DC)

◆Standard Type

Rated voltage (V)	Rated current ±10 % at 23˚C (mA)	Coil resistance ±10 % at 23˚C (Ω)	Max. continuous voltage at 85˚C	Pick up voltage(Max) at 23˚C	Drop out voltage(Min) at 23˚C	Power consumption at rated voltage
3	120	25	160 % of rated voltage	75 % of rated voltage	5 % of rated voltage	approx. 0.36W
5	72.5	69				
6	60	100				
9	40	225				
12	30	400				
18	20	900				
24	12	1600				
36	10	3600				
48	7.5	6400				
60	6	10000				

◆High Sensitivity Type

Rated voltage (V)	Rated current ±10% at 23˚C (mA)	Coil resistance ±10% at 23˚C (Ω)	Max. continuous voltage at 85˚C	Pick up voltage(Max) at 23˚C	Drop out voltage(Min) at 23˚C	Power consumption at rated voltage
3	75	40	180 % of rated voltage	75 % of rated voltage	5 % of rated voltage	approx. 0.22W
5	44.3	113				
6	36.8	163				
9	24.5	368				
12	18.3	655				
18	12.2	1473				
24	9.2	2610				
36	6.1	5902				
48	4.6	10435				
60	3.7	16210				

Specification

Contact material	AgSnO alloy	
Contact resistance (1)	100mΩ Max.	
Operate time (1)	6ms Max.	
Release time (1)	2ms Max.	
Insulation resistance (1)	1000MΩ Min. (DC 500V)	
Dielectric strength (1)	Between open contact : AC 1000V, 50/60Hz 1 min. (typ.)	
	Between contact and coil : AC 5000V, 50/60Hz 1 min.	
Vibration resistance	Operating extremes	10～500Hz , NO：20G，NC：5G
	Damage limits	10～55Hz , amplitude 1.5 mm
Shock resistance	Operating extremes	50G
	Damage limits	100G
Life expectancy	Mechanical	30,000,000 operations (frequency 72,000 operations/hr)
	Electrical	100,000 operations (frequency 360 operations/hr)
Operating ambient temperature	-40～+85°C (no freezing)	
Weight	Approx. 5.5 g	

Note：(1) initial value

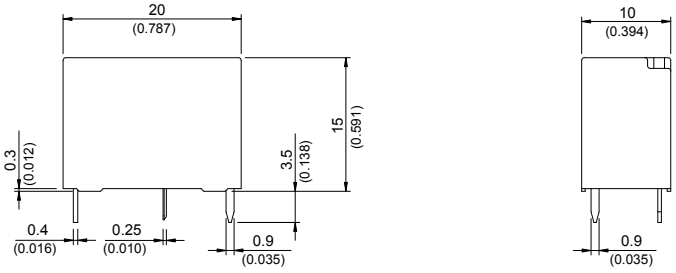
Safety Approval

Certified	UL / CUL	VDE
File No.	E74321	40006691

Safety Approval Rating

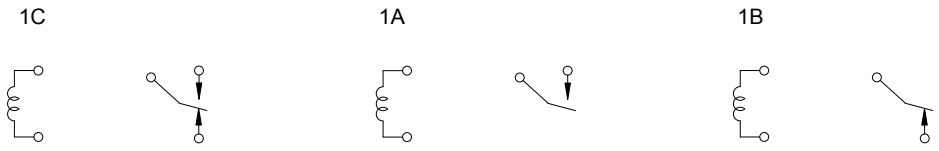
UL / CUL	VDE
NO：10A 277VAC NC：6A 277VA	NO：8A 250VAC T85 NC：6A 250VAC T85

Outline Dimensions



Wiring Diagram

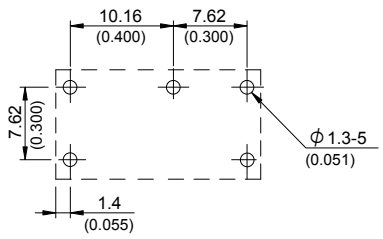
BOTTOM VIEW



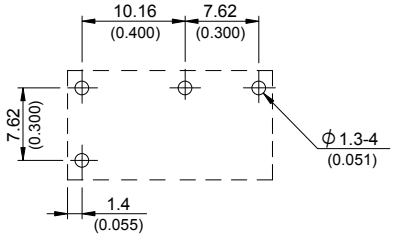
PC Board Layout

BOTTOM VIEW

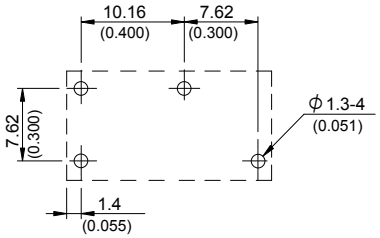
1C



1A



1B



Engineering Data